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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Jong-Cheol Bae

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EXAMINER

DEAN, RAYMOND S

ART UNIT

PAPER NUMBER

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/873,702	Applicant(s) BAE, JONG-CHEOL	
	Examiner RAYMOND S. DEAN	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Pages 2 – 4 of the Remarks regarding Pecen filed November 20, 2008 with respect to the rejection(s) of claim(s) 1 and 3 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art Alanara (5,604,921).

Alanara, which also teaches a broadcast messaging service, teaches a method comprising: converting broadcasting information to a predetermined message code that includes code for a type of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38, the code for the type is the code for the message category) and generating a message having the converted predetermined message code and a header indicating the type of the broadcasting information in a format predetermined depending on the type of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38); and wherein the converted predetermined message code includes a code that is predetermined for at least one word for indicating the contents of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38, the code for the type is predetermined and is a code word).

Alanara also teaches a method comprising: checking a header of a broadcast message upon receipt of the broadcast message (Cols. 2 lines 15 – 23, 6 lines 34 – 35, lines 36 – 38, the user can specify what kinds of broadcast messages said user desires

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thus in order for the user to receive the desired message, such as sports related messages, the header will need to be checked in order to determine the message category and thus the type of message) and a code that includes code for a type indicated by the header of the broadcast message, if the header indicates there is a coded message (Col. 6 lines 34 – 35, lines 36 – 38, a typical format in short messages comprises short hand formats which comprise a finite number of terms that can be used to express the whole content of the message, the short hand terms are therefore codes, since the messages can be encoded with these short hand terms a scenario wherein the header indicates that there is a coded message arises). Alanara further teaches wherein the header indicates the contents of the message (Col. 6 lines 34 – 35, lines 36 – 38, if the message type or category is know then the content is also known thus the header further indicates the content).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jung et al. (6,097,949) in view of Alanara (5,604,921) and in further view of Gaskill et al. (5,481,254)

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Regarding Claim 1, Jung teaches a method of transmitting broadcasting information to a mobile station by utilizing a cell broadcasting service (CBS) (Column 2 lines 23 - 37), and transmitting the generated message by utilizing the CBS (Column 2 lines 23 – 37).

Jung does not specifically teach a method comprising: converting broadcasting information to a predetermined message code that includes code for both type and contents of the broadcasting information; generating a message having the converted predetermined message code and a header indicating the type of the broadcasting information in a format predetermined depending on the type of the broadcasting information; and wherein the converted predetermined message code includes a code that is predetermined for at least one word for indicating the contents of the broadcasting information.

Alanara, which also teaches a broadcast messaging service, teaches a method comprising: converting broadcasting information to a predetermined message code that includes code for a type of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38, the code for the type is the code for the message category) and generating a message having the converted predetermined message code and a header indicating the type of the broadcasting information in a format predetermined depending on the type of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38); and wherein the converted predetermined message code includes a code that is predetermined for at least one word for indicating the contents of the

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broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38, the code for the type is predetermined and is a code word).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the CBS system of Jung with the system of Alanara for the purpose of enabling a user to specify what types of broadcast messages that the user is interested in receiving as taught by Alanara.

Gaskill teaches a predetermined message code that includes a code for contents of the broadcasting information (Cols. 1 lines 32 – 36, 5 lines 32 – 42).

Jung in view of Alanara and Gaskill teach a wireless broadcasting system in which general interest information such as weather content is provided to a group of mobile users thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the above coding method of Gaskill as an alternative means for achieving the predictable result of providing weather content to a group of mobile users.

Regarding Claim 2, Jung in view of Alanara and in further view of Gaskill teaches all of the claimed limitations recited in Claim 1. Gaskill further teaches wherein if the broadcasting information is weather information, the predetermined message code includes an area code, a date code, a time code, and a weather code (Col. 5 lines 32 – 42, typical local weather information comprises area, date, time, and weather thus the code will comprise an area code, date code, time code, and weather code).

Regarding Claim 3, Jung teaches a method of receiving broadcasting information in a mobile station by utilizing a cell broadcasting service (CBS) (Column 2 lines 23 -

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37) and recovering broadcasting information by comparing a message code of the CBS message with a predetermined code (Figure 3, Column 3 lines 1 – 20, Column 3 lines 26 – 42).

Jung does not specifically teach a method comprising: checking a header of a CBS message upon receipt of the CBS message; and a code that includes code for both type and contents indicated by the header of the CBS message, if the header indicates there is a coded message.

Alanara also teaches a method comprising: checking a header of a broadcast message upon receipt of the broadcast message (Cols. 2 lines 15 – 23, 6 lines 34 – 35, lines 36 – 38, the user can specify what kinds of broadcast messages said user desires thus in order for the user to receive the desired message, such as sports related messages, the header will need to be checked in order to determine the message category and thus the type of message) and a code that includes code for a type indicated by the header of the broadcast message, if the header indicates there is a coded message (Col. 6 lines 34 – 35, lines 36 – 38, a typical format in short messages comprises short hand formats which comprise a finite number of terms that can be used to express the whole content of the message, the short hand terms are therefore codes, since the messages can be encoded with these short hand terms a scenario wherein the header indicates that there is a coded message arises). Alanara further teaches wherein the header indicates the contents of the message (Col. 6 lines 34 – 35, lines 36 – 38, if the message type or category is known then the content is also known thus the header further indicates the content).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the CBS system of Jung with the system of Alanara for the purpose of enabling a user to specify what types of broadcast messages that the user is interested in receiving as taught by Alanara.

Gaskill teaches a message code that includes a code for contents of the broadcasting information (Cols. 1 lines 32 – 36, 5 lines 32 – 42).

Jung in view of Alanara and Gaskill teach a wireless broadcasting system in which general interest information such as weather content is provided to a group of mobile users thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the above coding method of Gaskill as an alternative means for achieving the predictable result of providing weather content to a group of mobile users.

Regarding Claim 4, Jung in view of Alanara and in further view of Gaskill teaches all of the claimed limitations recited in Claim 3. Gaskill further teaches wherein if the broadcasting information is weather information, the message code includes an area code, a date code, a time code, and a weather code (Col. 5 lines 32 – 42, typical local weather information comprises area, date, time, and weather thus the code will comprise an area code, date code, time code, and weather code).

Regarding Claim 5, Jung teaches a method of transmitting and receiving broadcasting information by a cell broadcasting service (CBS) in a mobile telecommunication system (Column 2 lines 23 - 37) and recovering broadcasting

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information by comparing a message code of the CBS message with a predetermined code (Figure 3, Column 3 lines 1 – 20, Column 3 lines 26 – 42).

Jung does not specifically teach converting broadcasting information to a predetermined message code that includes for both type and contents of the broadcasting information; generating a message having a header indicating the type of the broadcasting information and the predetermined message code in a format predetermined depending on the type of the broadcasting information; transmitting the generated message by utilizing the CBS; receiving the CBS message; checking the header of the CBS message upon receipt of the CBS message in a mobile station; and a code corresponding to the type and contents indicated by the header of the CBS message, if the header indicates there is a coded message.

Alanara teaches a method comprising: converting broadcasting information to a predetermined message code that includes code for type of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38, the code for the type is the code for the message category) and generating a message having the converted predetermined message code and a header indicating the type of the broadcasting information in a format predetermined depending on the type of the broadcasting information (Cols. 2 lines 9 – 14, 6 lines 34 – 35, lines 36 – 38); transmitting the generated message by utilizing the broadcast (Col. 6 lines 34 – 38); receiving the broadcast message; checking the header of the broadcast message upon receipt of the broadcast message in a mobile station (Cols. 2 lines 15 – 23, 6 lines 34 – 35, lines 36 – 38, the user can specify what kinds of broadcast messages said user desires thus in

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order for the user to receive the desired message, such as sports related messages, the header will need to be checked in order to determine the message category and thus the type of message); and a code corresponding to the type and contents indicated by the header of the broadcast message, if the header indicates there is a coded message (Col. 6 lines 34 – 35, lines 36 – 38, a typical format in short messages comprises short hand formats which comprise a finite number of terms that can be used to express the whole content of the message, the short hand terms are therefore codes, since the messages can be encoded with these short hand terms a scenario wherein the header indicates that there is a coded message arises, if the message type or category is known then the content is also known thus the header further indicates the content).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the CBS system of Jung with the system of Alanara for the purpose of enabling a user to specify what types of broadcast messages that the user is interested in receiving as taught by Alanara.

Gaskill teaches a predetermined code corresponding to the contents of the broadcasting information (Cols. 1 lines 32 – 36, 5 lines 32 – 42).

Jung in view of Alanara and Gaskill teach a wireless broadcasting system in which general interest information such as weather content is provided to a group of mobile users thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the above coding method of Gaskill as an alternative means for achieving the predictable result of providing weather content to a group of mobile users.

Regarding Claim 6, Jung in view of Alanara and in further view of Gaskill teaches all of the claimed limitations recited in Claim 5. Gaskill further teaches wherein if the broadcasting information is weather information, the message code includes an area code, a date code, a time code, and a weather code (Col. 5 lines 32 – 42, typical local weather information comprises area, date, time, and weather thus the code will comprise an area code, date code, time code, and weather code).

Regarding Claim 7, Jung in view of Alanara and in further view of Gaskill teaches all of the claimed limitations recited in Claim 6. Jung further teaches determining if a display state is active, and displaying the CBS message if the display state is active (Column 3 lines 26 – 42, the display state will become active for those mobile devices in Group A thus there is a determination of said display state).

Regarding Claim 8, Jung in view of Alanara and in further view of Gaskill teaches all of the claimed limitations recited in Claim 6. Jung further teaches determining if a display state is active, and storing the CBS message if the display state is not active (Column 3 lines 26 – 46, the display state will not become active for those mobile devices in Group B thus there is a determination of said display state, since this is a CBS message all mobile devices will simultaneously receive and store said message).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAYMOND S. DEAN whose telephone number is (571)272-7877. The examiner can normally be reached on Monday-Friday 6:00-2:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raymond S Dean/
Examiner, Art Unit 2618
February 19, 2009